

W5YI REPORT

Up to the minute news from the world of amateur radio, personal computing and emerging electronics. While no guarantee is made, information is from sources we believe to be reliable. May be reproduced providing credit is given to The W5YI Report.

Dits & Bits

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September 15, 1987

Status of Amateur Radio Rulemaking

We made a routine call to the FCC on Friday to find out the status of amateur radio rulemaking. We spoke to Ray Kowalski, Chief of the Private Radio Bureau's Special Service Division which oversees the Personal Radio Branch and amateur radio.

Ray said that the FCC would be planning their work schedule for the upcoming and subsequent quarters next week. "We are getting back into the swing of things. Things are getting cranked up (after the August FCC recess)"

"The major undertaking will be the proposal to revamp §Part 97," he said. "The staff has already started and we have been working very hard on it. There will be no rule changes that I would call startling. While it is not going to propose 'no code,' to say that the revised Part 97 would be purely 'cosmetic' would not be accurate either."

"We will be grouping rules together better than they are now. New sections will be created to deal with the subject matters that are current today." Ray specifically mentioned amateur operating procedures for emergency communications and packet radio. "We want to define what is possible to do when ...how do you do it ...what are the ground rules. Emergency communications do not always have to be 'life and death' situations."

HF third party packet operation probably will not be proposed in the new rules, Ray said. The FCC has approved some stations to participate in third party traffic handling below 50 MHz "to get information on how this might work and what the operating parameters should be. We will leave this area alone until we get the operating experience that this experiment will provide." Ray commented that he had not heard of any abuses of packet traffic handling by amateurs.

HEMISPHERE WIDE AMATEUR RECIPROcity

CITEL, the InterAmerican Telecommunications Conference has concluded in Lima, Peru, with the proposal for a hemisphere wide amateur reciprocal operating arrangement being adopted. The treaty, called the Inter-American Amateur Radio Operators Convention, was immediately signed by Argentina, Bolivia, Brazil, Colombia, Chile, Haiti, Peru, Suriname, United States and Uruguay. Canada surprisingly is not a member of CITEL which tends to be primarily a Spanish middle and South American telecommunications organization. The U.S. delegation was headed up by Bill Jahn of the State Department.

Strangely, Mexico did not sign the document at the conference even though the final form of the document was drafted by Mexico with the help of the United States. "It is virtually almost their product." They can

(and probably will) sign the document later in their own country. "There are procedures in place," Ray said, "for taking the agreement home, circulating it and then signing. Nothing should be concluded by who signed and who did not. Even the countries that have signed may need further ratification (in their own countries.)"

The treaty, which facilitates reciprocal amateur operation in our hemisphere, will take effect once a certain number of countries sign the treaty. It will be the vehicle by which Mexico offers reciprocal amateur licensing with the United States.

ON FCC DOCKET 87-14, THE 220 ISSUE....

The FCC's Office of Science and Technology has not yet contacted the Private Radio Bureau to get their views on Docket 87-14 - the NPRM the proposes to allocate the first 2-MHz of the 220-222 MHz ham band to the Land Mobile Service for narrow band voice operation.

"That is not unusual. They have a mountain of comments to plow through. I went through the computerized list of who commented and got tired of asking for more 25 line readouts ...I never got to the end of the list! Typically what OET will do is to circulate a proposal for resolution to us after they analyze the comments. What I think we will do is ...instead of waiting for them to request our input on their proposal, is to simply write a memo to them with our (Private Radio Bureau) views on it."

SHOCKING COMMENTS ON 87-14 FROM FIT!

We had also heard rumors that one of the organizations that proposed to become an SCSC - Special Call Sign Coordinator, had filed comments supporting business use of the 220-MHz ham band. PRB-3 proposes to privatize the issuance of secondary ham call signs of choice. We had a copy of Forestry Industries Telecommunications comments picked up and flown to us by Federal Express. Their comments were professionally completed by the Washington law firm of Fletcher, Heald and Hildreth on behalf of James H. Baker, FIT's Executive Vice President.

FIT not only supported the NPRM to reallocate 2 MHz of the 220-MHz ham band to Land Mobile, they argued that this was not enough! They asked that the FCC add another megahertz (to 223 MHz) thereby completely destroying the amateur 220 repeater band plan that begins at 222.32 MHz. The exact wording from their comments filed on May 21, 1987:

(Quote) "FIT believes that a 2 MHz land mobile allocation in the 216-225 MHz (band), while highly welcome, would not be sufficient to accomodate adequately the requirements for additional VHF frequencies in the land mobile services for both government and non-government users, even with the contemplated 5 KHz channelization. The forest products industry alone has substantial requiremens for VHF frequencies. Other services, in the government and the nongovernment categories, most likely need VHF frequencies as well. FIT suggests, therefore, that the land mobile allocation be increased to 3 MHz, to cover the 220-223 MHz segment of the band. A three MHz allocation would also provide the needed separation between transmit and receive frequencies for mobile relay operations, a mode of operation essential for land mobile communication systems serving large rural areas. FIT recognizes that the band is used substantially by the Amateurs. However, in view of the severe shortage of VHF frequencies for land mobile communications, and given the fact that Amateurs have available to them the 144-148 MHz (segment) as well as the 430-440 MHz bands, FIT believes that the public interest, overall, would be best served by allocating the 3 MHz between (the) 220 and 223 band to the land mobile radio services." (End Quote)

And this is the firm that has applied to the FCC to issue you a \$25.00 amateur call sign of your choice — plus another 5 bucks for a wall certificate! FIT's comments on 87-14 sort of underscores that their allegiance lies with business rather than amateur radio interests.

STATUS OF AMATEUR SUBMITTED PETITIONS

A petition was submitted by Ray K. Adams, N4BAQ, of the Western Carolina ARS-VEC on behalf of all VEC's seeking a change

NOVICE VOICE CLASS PACKAGE \$19.95 + \$2.00

We have developed a complete Novice Package that enables an Amateur Radio Operator to obtain a ham ticket without

W5YI VEC
P.O. Box 10101-N

The publisher said that having the vice president "Wait for the accident to happen is

just a waste of talent," adding, "This is a position that should and could be used to make America grow and to help to solve America's national problems."

He said that one of his proposals would require all students to take electronics and computer courses from the 5th grade on.

Green founded a number of major computer publications, including Byte, Kilobaud Microcomputing, 80 Micro and inCider. He also launched 73, a magazine for radio enthusiasts and Digital Audio and Compact Disc Review.

UPI notes, "Vice presidential campaigns are rare but not unprecedented in New Hampshire, site of the nation's first presidential primary. Endicott Peabody, a former governor of Massachusetts, mounted a campaign for vice president in the 1970's and lessor-known hopefuls have also sought the office."

The wire service dubs Green's bid "an admitted long-shot."

AMATEUR RADIO CALL SIGNS....

issued as of the first of September:

| Radio District: | Gp."A" Extra | Gp."B" Adv. Tech/Gen. | Gp."C" Novice | Gp."D" Novice |
|-----------------|--------------|-----------------------|---------------|---------------|
| 0 | WA0A | KE0QF | N0IKN | KB0BCF |
| 1 | NM1T | KC1FL | N1FCZ | KA1QXZ |
| 2 | NY2U | KE2BX | N2HMH | KB2EGY |
| 3 | NJ3T | KD3EF | N3FSJ | KA3SDA |
| 4 (*) | AB4DC | KK4QD | N4QZY | KC4BKE |
| 5 (*) | AA5BW | KG5CE | N5LFF | KB5EDW |
| 6 (*) | AA6EB | KI6XO | N6QEO | KB6TSA |
| 7 | WE7U | KF7CT | N7JUJ | KB7CTM |
| 8 | NY8H | KE8NP | N8ISY | KB8DBS |
| 9 | NU9D | KE9GA | N9GVM | KA9ZIG |
| N.Mariana I. | AH0E | AH0AC | KH0AI | WH0AAG |
| Guam | KH2E | AH2BR | KH2CS | WH2AKZ |
| Johnston Is. | AH3A | AH3AC | KH3AB | WH3AAC |
| Midway Is. | | AH4AA | KH4AD | WH4AAF |
| Palmyra/Jarvis | AH5A | | | |
| Hawaii | (**) | AH6H | NH6LW | WH6BTQ |
| Kure Island | | | KH7AA | |
| Amer. Samoa | AH8C | AH8AC | KH8AE | WH8AAW |
| Wake Wilkes | Peale | AH9AC | KH9AD | WH9AAG |
| Alaska | (**) | AL7JD | NL7LB | WL7BPK |
| Virgin Is. | KP2T | KP2BI | NP2CE | WP2AFR |
| Puerto Rico | (**) | KP4OD | WP4KP | WP4HLJ |

NOTES: * = All 2-by-1 format call signs have been assigned in the 4th, 5th and 6th radio districts. 2-by-2 format call signs from the AA-AL prefix block now being assigned to Extra Class amateurs.

** = All Group "A" (2-by-1) format call signs have been assigned in Hawaii, Alaska and Puerto Rico. Group "B" (2-by-2) format call signs now being assigned Extra Class.

Reminder! NEW WORLD OF AMATEUR RADIO video premieres this Sunday! If you own a backyard dish, tune your TVRO to GTE Spacenet 1 - Transponder 12-H (Channel 23) on September 20 at 6:00 p.m. EDT. (Stereo Channel: Left 6.2 MHz, Right 6.8 MHz.) Although you may copy the video for your own use, additional copies of the 30 minute New World of Amateur Radio are available from the ARRL (Box NW, 225 Main Street, Newington, CT 06111) for \$20.00 prepaid.

NEW HAM RADIO RULES FOR THAILAND

New rules governing amateur radio in Thailand have been signed into law. Two amateur organizations, Volunteer Radio Association (VRA) and the Radio Amateur Society of Thailand (RAST) have been merged into one group to govern Thai amateur radio.

Foreign residents may only operate amateur radio in Thailand if they are from countries which have reciprocal operating privileges. RAST is now making overtures to other countries toward this end.

Spain's King Juan Carlos (EA0JC) is coming to Thailand in November and arrangements are planned for historic amateur radio communications between the King of Spain and King Bhumiphol of Thailand.

The Post and Telegraph Department has given the green light for radio equipment to be sold locally by authorized dealers and to amateur radio operators. The regulations stipulate that all equipment bear a symbol which will clearly identify it as amateur radio equipment. Thailand's amateur radio regulations are being translated into English for use in arranging reciprocal licensing agreements with other countries. (Information provided by Charles H. Kelley, W5SPK, HS1ADD/Thailand)

I am a currently licensed Extra Class amateur radio operator and I have never had my station or license revoked or suspended. I do not own a significant amount of property in Thailand. I am a currently licensed Extra Class amateur radio operator and I have never had my station or license revoked or suspended. I do not own a significant amount of property in Thailand.

● Robert D. McClaran, WA4ZGG, has reopened McClaran Sales, Inc., of Vero Beach, Florida for the distribution of Aluma towers. Bob is probably the only dealer in the U.S. who accepts ham gear or computers on trade towards the purchase of a tower. (Box 2513, Zip 32961. 305-567-8224)

● We have had reports that an Extra Class amateur station in Los Angeles, California, is transmitting what appears to be Krishna religious doctrine under the guise of code practice at 15 words per minute by automatic means for hours at a time. (Frequency twenty meters, 14.055 MHz.) The transmitting station periodically transmits an address from which listeners can obtain additional information.

● According to accounts in the radio broadcast media, there is still an ongoing campaign by FM broadcast interests to get the FCC to allocate a portion of the 220-230 MHz band to FM broadcasting - a so-called "FM2" band. The FCC's Office of Science and Technology previously rejected an RNJ (Radio New Jersey) proposal to allocate the 225-230 band to FM broadcasting since it is used by the military. Now RNJ president Larry Tighe, is trying to organize a broadcaster letter writing campaign supporting taking FM broadcast spectrum from the amateur 220-225 MHz band. He'll get very little sympathy from OET. They already have some 20 volumes of comments to review principally opposing OET's proposal to give 220-222 MHz to land mobile. Besides, 220-MHz broadcasting in Region 2 is illegal under the international Radio Regulations. While FM2 can't happen, it does highlight to continuing pressure our amateur frequencies are always under.

● My mail indicates that some long time amateurs are fed up hearing about Novice Enhancement and the need to increase the amateur ranks. They feel it is time that the FCC did something for the 'old timers'. One recently wrote us suggesting "Why not 'grandfather' amateurs operating in excess of twenty-five years with benefits of the top class license?"

● Another protest is being lodged against the #2 and #3 certificate winners of the (CQ

Magazine) 160 Meter WAZ Award via an anonymous computer letter writing campaign. The letters are sent those who work 160 meters. "You know who beats you in the pileups," the unsigned letter says. Readers that feel skeptical about the awards are urged to express their concerns to any of four listed CQ Magazine people.

● Clarification - In our August 15th newsletter we offered to forward successful Form 610 Novice applications to the FCC - since we mail Technician and higher class applications to the Commission every day. We certainly did not intend to insinuate that Novice applications must be sent to a VEC for forwarding to the FCC. There are two amateur volunteer testing programs - one is the older Novice program which now takes two (General or higher class) VEs - the other is the newer VEC system for testing Technicians and up. (VEC system examinations require three VEC accredited examiners.) Novice applications really should be sent direct to the FCC by the volunteer examiners. (FCC, P.O. Box #1020, Gettysburg, PA 17326) Form 610's of those who upgrade further must be forwarded to the appropriate VEC for screening and forwarding to the Commission.

● Having TVI problems when on HF? AMECO has introduced two new TV/FM High Pass Filters - one for 75 ohm application, the other for 300 ohm twin lead. The filters, which contain 9 shielded sections (with a total of 25 elements in 5 individually shielded compartments) provide 70 db of attenuation below 50 MHz. Price: \$12.95 from AMECO, 220 E. Jericho Turnpike, Mineola, NY 11501.

● Dayton Amateur Radio Association announces their 1987 scholarship winners. They are: Michael Wozniak, KD8TA, of Martin's Ferry, Ohio; Carol Lee Colby, KA8LF, Midland, Michigan; Robert Jackson, KA7OCV, Tucson, Arizona and Douglas Kleeman, KA9LWN of Shawano, Wisconsin. Ninety applications were received from 32 states for the DARA Scholarships.

● W87PAX, the Indianapolis Pan Am Games official Amateur Radio Station has been a smashing success! The operation logged 23,270 QSO's - (20K on voice, 3K CW.) Over

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8,000 of the QSO's were with DX stations in 139 different countries. Thirteen ham bands (160 meters through 1296 MHz) were operated by 44 operators. Twenty meters was the most popular, accounting for nearly 60% of the contacts. Up to nine different transmitters were on the air simultaneously! Six different transmission modes were used - SSB, CW, AM, FM, ATV and packet.

● Police ham hacker - A front page story in The Virgin Islands Daily News tells about Herb Schoenbaum, KV4FZ of the St. Croix police department using a legislative computer to look at the private files of Republican Senator Holland Redfield. A complaint was made to Senate president Iver Stidiron and the police are conducting an internal investigation. Schoenbaum said he had permission to use the system, but didn't look at any of Redfield's files. The newspaper report said that Schoenbaum bragged at a GOP women's luncheon at which he was a speaker that he had gotten information from Redfield's files. Apparently it was intended to be politically embarrassing to Redfield. The bad blood stems from the 1984 GOP presidential national convention. Redfield headed up the delegation and Schoenbaum was an alternate.

● The Canadian Radio Relay League has re-elected CRRL President Tom Atkins, VE3CDM, and Vice President Harry MacLean, VE3GRO, by acclamation for a further two year term commencing January 1988. Tom was one of the founding fathers of CRRL, the first Ontario director of CARF - the Canadian Amateur Radio Federation, and has been elected member of the I.A.R.U. Region 2 Executive Committee for the past few years. Harry is probably best known for his Canadian newsFronts column in QST.

● Data Quest, a market research firm, reports that - with 50 million people expected to be working at home by the year 2,000 - personal photo copiers will develop into a consumer item. 500,000 will be sold annually by 1990. Canon U.S.A. has 80% of the market, Sharp Corp.: 12%. (300,000 units will be sold this year!)

● Radio Shopping Show coming this fall! "Value Radio/Shop Around the Clock" is

designed for AM stations to increase their income during the overnight hours of 11 p.m. to 7 a.m. AM'ers will get a 5% commission on goods sold. The program will be satellite delivered to radio stations.

SPECIAL VIDEO CASSETTE TAPING REPORT

Be on the lookout for (JVC) "S-VHS" and (Sony) "ED-Beta" format VCR recorders and tapes. Nearly every manufacturer will have them. Cost will be about 25% higher than standard VCR decks ...but worth the difference. Super-VHS and Extended Definition-Beta VCR's not only offer high definition recording/playing but also can play the regular (older) conventionally recorded tapes.

The high quality comes from increased horizontal lines and metal particle tapes. ED-Beta offers slightly better resolution than S-VHS - 500 vs. 440 lines. Video software professionals don't like them since third and fourth generation copies are as good as the original! The new technology was developed in anticipation of HDTV - high definition television broadcasting. Eighty percent of all home video recording will be in a high definition format by 1990. Movies are on the way. Blank tape will be expensive - at least to start. Plan on spending \$20 for a T-120 cassette.

DAT (Digital Audio Tape) VCR recorders (from a single company, the Marantz DT-84) could be available as early as next month. Ninety minute blank DAT tapes will retail between \$10 and \$15. While the technology has been in place for some two years now, legislative questions have been holding back U.S. marketing. Congress (who still has a strong anti-Japan sentiment) are under pressure from compact disc makers to regulate DAT hardware. And some Japanese makers reportedly do not want to provoke Congress further.

Legislation proposed requires DAT recorders to electronically read an implanted "Copycode" signal stored on "notched" digital music recordings so that they can't be effectively reproduced. The "Copycode" is added to DAT recorders by means of a special microchip. Lobbyists are telling Congress that without this feature, the booming CD market

will be destroyed since consumers will be able to make their own high quality digital recordings.

Audio engineers aren't convinced. They say that "Copycode" erodes the big advantage of digitally recorded music - its brilliant, concert-like frequency response. They also feel pirates are going to find a way around "Copycode" by changing the chip and you can't legislate against consumers who modify their own VCR's. CD's are fast replacing the standard LP record. DAT recorders are not compatible with existing (analog) VHS/Beta video tapes.

More headaches are on the horizon for the nation's audio/video professionals. Dual-deck VCR's ...recorders specially made to reproduce pre-recorded tapes with superior quality. The video software industry likes these even less! An Arizona firm will be importing dual-deck "VCR-2" recorders shortly.

The home video boom is also hitting television broadcasters very hard! They are concerned - and they should be! In depth studies of home tapers have been gathered. Nationwide, according to Abitron Ratings Co., VCR penetration now stands at 49.6% - higher than cable, but is passing 60% in some markets. VCR penetration was 35% just a year ago.

Broadcasters say that, with 30 cable channels and home video, their audience ratings are suffering badly and that viewing habits are changing. VCR owners play back videos three times as much during the summer months as compared with other portions of the year. Cable penetration stands at 48.8%.

Saturday night is the hardest hit when 10% of all VCR owners are playing back videos. Fifty percent of VCR playback takes place on the weekend - from Friday to Sunday evening. Twenty-three percent of all playback occurs during prime time. Average VCR household has its cassette recorder in a 'play' mode an average of 5 hours a week, 'record' mode 3.5 hours a week. These figures all add up to big trouble for broadcasters. Clearly, the broadcast audience is shrinking.

A New York based research firm says

that by 1995, Americans will spend one-fourth of all viewing time watching pre-recorded video while the combined broadcast network audience share falls to 45%.

The report estimates that more than 4 billion tapes will be rented that year, representing \$20 billion in revenue. They predict that home video will replace broadcast TV as the nation's entertainment medium of choice during the next decade.

● A \$5.4 million high-definition television production studio is in the process of opening here at Dallas' Las Colinas corporate park. It will be the first HDTV production facility located outside of New York. HD Studio Dallas will use Sony 1,125 scanning line video equipment. Japan plans direct broadcast satellite transmission of HDTV signals in 1990, the U.S. about three years later. Although HDTV television sets aren't yet available, projects shot with the new technology can be transferred to 35mm film or converted back to the U.S. standard 525-line video format for use until HDTV is available. Another plus is that the high definition video format can be transferred to the European 625-line definition standard without losing the resolution afforded by present U.S. standards. Europeans like our TV programming, but not our production quality.

● "Telecassette", a new satellite-delivered home video buying service will premiere October 15th. Viewers will be able to order and download home videos by dialling an 800 number.

● Hi-Tech Mate-Seeking - Bookstores are selling and video shops in California are now renting a new classification of VCR prerecorded tape. Called "VideoMates", the cassettes are actually an electronic version of the "personals" run in magazines. The \$19.95 tapes can be rented in versions intended for men or women viewers. Each contain 60 carefully selected individuals. Only one in ten singles that applies to the service ever makes it to the video. VideoMate will also forward your letter to the ones you are interested in for \$15.00. The company plans to release more cassettes. (What happens when an individual is no longer in "circulation", but their

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VCR taped interview is. Pre-recorded VCR tapes aren't disposed of like magazines.)

'PEOPLE METERS', HI-TECH BODY COUNTING

Rating firms, A.C. Nielsen and AGB Television have entered the high tech TV broadcast audience measuring era. Diaries are "out" - push button computers are "in." They join two other "people meter" companies — Arbitron and Scan-America — with on-line devices that determine who is watching what. For years, A. C. Nielsen Co. held a monopoly on national TV ratings. No more. Competition between ratings firms is now fierce!

AGB Television also offers a new ratings wrinkle... "VCR fingerprinting" giving it the ability to identify when recorded programs are played back, who is watching, and whether the commercials are "zapped out" or "fast forwarded." Nielsen is also testing VCR capability.

Television networks, advertisers and major production studios pay millions of dollars annually to determine the popularity of their programming. Ratings are used primarily, however, as a mechanism to establish advertising prices. NBC alone will pay Nielsen \$5 million a year for passive "people meter" developed information.

No longer are entries written in a booklet. Demographically selected viewers now have to push buttons on sophisticated black boxes when they enter a television equipped room. Some say this favors the hi-tech "gadget oriented" individual. Rating services dispute this, but add even if it true, they add, these are the people with money to spend for advertised products. Supposedly a button-pusher reflects what more than 100,000 viewers are doing.

Nielsen has been experimenting with a body heat sensor in hopes of reducing the amount of active viewer involvement. An infrared sensor activates when viewers leave the room (particularly during commercials) and when unreported individuals are watching. It has its shortcomings, however. It can't tell the difference between large dogs and children - or whether the viewers are asleep.

Even though the new TV programming season does not start until September 21, networks, advertisers and rating services started three weeks early to iron out the kinks - and there seem to be plenty! Cable results were not included, however, in the early test.

Nielsen is not scheduled to drop its diary service until September 14. It served as the "yardstick" for the early test. Although there were exceptions, as a general rule, television programs got lower ratings with the people meter than with the NTI (Nielsen Television Index) "diary" system. That meant less people were watching - and worse, advertisers were paying higher prices than they bargained for.

The networks aren't too happy with the results. It could cost them millions in advertising revenue! Rating services fear customers might well decide to subscribe to the service reflecting the largest audiences. Some might also elect to subscribe to more than one service and require cost concessions because of the necessity.

Further complicating the results, Nielsen's people meters read higher than AGB's. Nielsen is saying their people meter ratings are more accurate since they are closer to their NTL. AGB maintains the antiquated diary system should not be used as the measurement standard ...and the controversy goes on.

Even though Nielsen refused to release their long accepted and traditional diary figures to the media — NBC, still an NTI subscriber, released them side-by-side with Nielsen's metered figures.

There were all sorts of excuses for the conflicting sets of national TV ratings - some valid (...software problems, not enough meters in place, lack of cable viewer input, etc.) Hopefully, when the bugs are out, the various rating services will be closer together. But I wouldn't bet on it. There are too many variables.

A new "black box" has been developed dubbed "The Montel System." It is cheaper — only \$25 as opposed to \$600 for people meters. Montel boxes transmit household viewing

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HOLDING AMATEUR RADIO OPERATOR CLASSES?
and need low priced manuals. We have the
Test Manual: 1 Ea. 5-9 10 or more Quantity
Ice 10 100 pl psta

data back to a ratings facility over a viewers (rather than dedicated) phone lines. It can be hooked to a cable converter - or operated as a stand alone unit if a viewers has only broadcast TV capability. The advantage of the system is that it also can be used for PPV (Pay Per View) program ordering. The system also has potential for home shopping and utility service monitoring.

- Floppy disks are selling - but are costing less! The International Tape/Disc Association says U.S. sales of the most popular 5¼" floppy are down 16% to \$330 million, but shipments are up 40%! The reason? Retail price of floppies has nose-dived! The 5¼" disk accounts for 60% of all floppy sales. It is hard to believe, but when first introduced, 5¼" disks sold for up to \$5.00 each! Now, if you are paying more than 25¢, you are paying too much! Call 1-800-634-3478 to order 200 (DS/DD or SS/DD soft sectored) 5¼" disks at 25¢ each (\$50.00 plus \$5.00 shipping. \$9.00 shipping to APO's, FPO's and Canada, \$12.00 shipping to Alaska, Hawaii, Virgin Islands and Puerto Rico.) This includes sleeves, write protect tabseven reinforced hub rings! (The price is 27¢ if you only want a hundred.) The firm that sells these, Micro Center, 1100 Steelwood Road, Columbus, Ohio, 43212-9972 has been rated as one of the top 50 companies in Inc. Magazine's 500 fastest-growing, privately held businesses in America. Micro Center has a five year growth record of over 8,000%! They will give you your money back if you are not satisfied for any reason.

- It sort of looks like the spun-off "Baby Bells" won't be going in the long distance telephone business anytime soon. Judge Harold Greene ruled that the seven Bell regional operating companies can expand their non-telephone services and transmit services offered by other firms, but are prohibited from manufacturing equipment or offering long distance service. Look for your local phone company to get involved in home banking, tele-shopping, information bata bases and other financial services delivered over the phone lines. They can't offer these services themselves, but can sell this capability to other firms who will offer it to you.

- According to FBI statistics, one in

four homes will be burglarized over the next four years. As a result, Heath/Zenith is entering the home security market. They will offer a complete line of passive infrared home security products - from a \$44.95 motion sensor light control to a \$399.95 complete, wireless home security center. By 1990, \$2.7 billion will be spent on home security systems.

AUTOMATIC MOTOR VEHICLE LOCATION....

Magnavox has won a contract to provide an Automatic Motor Vehicle Location System for the town of Fairfield, Connecticut. It will be used to track the movement and status of police cars and other emergency equipment.

Each vehicle will be fitted with a compact navigation processor which determines the distance and direction travelled from a known starting point. Speed input comes from a transducer interfaced to the vehicle's speedometer and the direction of travel is supplied by an electronic compass.

The vehicle's processor includes a small receiver that uses signals from orbiting navigational satellites. At intervals, satellite data is used to recalibrate the vehicle's computed position, cancelling out errors that may have accumulated over time. A communications processor controls digital data exchange with with base station. Driver access to the AVLS system is not necessary and all vehicle equipment is mounted in the trunk.

At the base station, the dispatcher monitors the movements of all vehicles on a large high-resolution video color map display. The color of each vehicle on the screen indicates its current status (green for available, yellow for dispatched to non-emergencies, red for emergency dispatched.)

An existing radio channel is used for the data link between vehicles and the base station. A central computer periodically triggers an automatic response from the vehicles which sends back formatted position and status reports. Short messages between the driver and dispatcher can also be sent through AVLS. These are automatically logged by the computer.

New Illustrated Novice Voice Class 1 textbook
 Oscillator and Battery \$9.95 + \$1.50 shipping.
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 Guaranteed to get the job
 formal classroom training. Guaranteed to get the job
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PIRATE BROADCASTING FOLLOWUP REPORT

The public doesn't seem to perceive illegal broadcasting to be a very serious crime. Quite the contrary, radio pirates often come across as heroes or martyrs promoting a worthy cause. At least that is the conclusion one comes to from reviewing media coverage. Most illegal broadcasters are radio enthusiasts ...broadcasting at low power from college closets and such. Real pirates use real power and have motives other than "playing radio announcer."

It has been a 18 months since John R. MacDougall, KA4WJA, of Ocala, Florida, a ham operator, home satellite dish dealer and part-time satellite uplink operator jammed HBO's midnight movie. He uplinked a video protest which was seen by millions in place of a portion of the regular HBO movie. MacDougall was protesting satellite programmers who were, one-by-one, scrambling their signal and charging back-yard dish owners for what was previously received free. He was tracked down, and when FCC authorities closed in, he gave himself up. MacDougall accepted a fine/probation plea bargain arrangement which also involved a one year suspension of his amateur license but no revocation.

While hard to believe, but now comes word (from the September 7th edition of Electronic Media, a broadcast/cable/satellite industry publication) that MacDougall has inspired a proposed new TV series entitled, "Captain Midnight, Thief of the Airwaves." Can you believe this? The 'Captain' will pretend to interrupt viewers' regular TV channels to beam them clips of the best and worst TV shows from around the world. Will this unbelievably weak plot work?

Independent producer, Action Time is developing the late night vehicle for London-based Channel 4, with possible syndication to the U.S. market if 'Captain Midnight' takes off.

The most recent pirate incident involved a group of rock'n rollers that popped up on the AM/FM broadcast and short/long wave bands on July 23rd. They called themselves RNI for Radio New York International.

We wondered why not RNYI and learned that RNI was once a famous (infamous?) offshore European pirate broadcaster who identified his Radio Northsea International as RNI.

The US-RNI, anchored offshore in international waters and flying a Honduran flag, ran 5 KW on 1620 KHz - basically a clear channel frequency. It was heard all over the United States. SWL's by the thousands left the short wave "pirate alley" to listen to 1620 kHz. The station played "free-form" music (whatever that is) and solicited advertising.

It all came to an end on July 28th when FCC officials boarded their 175-foot Honduran-registered fishing vessel and arrested Ivan Rothstein and Allan Weiner. The FCC took seven hours to dismantle the station which was reportedly investor financed. Rothstein and Weiner faced a whopping maximum sentence of five years in jail and a \$250,000 fine. A September 8th Wall Street Journal editorial said the FCC overreacted.

The defendants stated they selected their unlicensed frequencies so as not to interfere with licensed stations on the mainland. The September 1st edition of "Radio World" reported that Weiner was a long-time radio pirate and reportedly had been FCC cited on two previous occasions for unlicensed broadcasting.

The FCC did not take the radio equipment - merely disassembled it and cut cables. Originally the ship was to have been towed to port and the gear unloaded and stored but the anchor couldn't be raised. The ship later was returned to Weiner and Rothstein - including the radio equipment which they have promised not to operate the station while charges were pending.

The Federal Court for the Eastern District of New York dropped all criminal charges against the two operators providing they didn't do it again. An adult contemporary station, WNYG(AM), Babylon, New York, has authorized disk jockeys involved with the unlicensed operation to air their own legal weekly DJ show called "The Pirate Party." The "pirates" are also planning a lawsuit to address the damage done to their radio gear.